

**CRF Errors Corrected by the STIC System: Branch**

**Serial Number:** 09/004,395B

1645  
6/19/99

CRF Processing Date: \_\_\_\_\_  
 Edited by: \_\_\_\_\_  
 Verified by: AW (STIC staff)

- ENTERED
- ☐ Changed a file from non-ASCII to ASCII
  - ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
  - ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
  - ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_.
  - ☐ Added the mandatory heading and subheadings for "Current Application Data".
  - ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
  - ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
  - ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
  - ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
  - ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
  - ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
  - ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
  - ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_.
  - ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
  - ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
  - ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
  - ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
  - ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
  - ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_

**\*Examiner:** The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/004,395B

DATE: 06/23/1999  
TIME: 11:48:55

Input Set: I004395B.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

1 <110> APPLICANT: Gilmore Jr., Robert D  
2 Johnson, Barbara JB  
3 <120> TITLE OF INVENTION: RECOMBINANT P37/FlaA AS A DIAGNOSTIC REAGENT  
4 <130> FILE REFERENCE: 97,429  
5 <140> CURRENT APPLICATION NUMBER: US/09/004,395B  
6 <141> CURRENT FILING DATE: 1998-01-08  
7 <160> NUMBER OF SEQ ID NOS: 6  
8 <170> SOFTWARE: Microsoft Word 97  
9 <210> SEQ ID NO 1  
10 <211> LENGTH: 1655  
11 <212> TYPE: DNA  
12 <213> ORGANISM: B.burgdorferi  
13 <220> FEATURE:  
14 <221> NAME/KEY: CDS  
15 <222> LOCATION: 473..1498  
16 <220> FEATURE:  
17 <221> NAME/KEY: sig\_peptide  
18 <222> LOCATION: 473..538  
19 <220> FEATURE:  
20 <221> NAME/KEY: mat\_peptide  
21 <222> LOCATION: 539..1498  
22 <223> OTHER INFORMATION:  
23 <400> SEQUENCE: 1  
24 atgataatct tttttcaaaa aagggtttttt attttcattc tagcaaggga tttgttgcta 60  
25 atttaagata tttaagagat gaacaaaatt tgaaagataa tttagatctt ttagtaaaag 120  
26 attttctttt aggaagcaat gaggggtttt cttttgggtt tttattaagt gattcaagat 180  
27 ttttatattc ttttttaaag aatggagttt attatgtaa tctttcaaga gaattttatg 240  
28 attcttttaa taatggtgat tataatgaat cttttgatgt taaggatcaat ctttttgcta 300  
29 tgtctttaat aaaaacaatg cgctttaact atcctggtaa gataaaaaag attattattc 360  
30 ttgttgagg gtgtatctta aaggagcaaa gttgataaat taaattttac taataaaaaat 420  
31 aattaaaaaa cgaaaatttt ataaaagatt tatatataag gagttgggtt ac atg 475  
32 Met  
33 -22  
34 aaa agg aaa gct aaa agt att tta ttt ttt tta tta tcc act gtt ctt 523  
35 Lys Arg Lys Ala Lys Ser Ile Leu Phe Phe Leu Leu Ser Thr Val Leu  
36 -20 -15 -10  
37 ttt gct caa gag act gat gga tta gca gag ggt tct aaa agg gca gag 571  
38 Phe Ala Gln Glu Thr Asp Gly Leu Ala Glu Gly Ser Lys Arg Ala Glu  
5 10  
44 Ser Thr Arg Leu Asp Leu Thr Asn Tyr Val Asp Tyr Val Tyr Ser Gly

ENTERED

93                   185                   190                   195  
94           ttc caa aac ttt gta qaa aaq att gaq aqt gaa aaa cct gaa gaa tca           1483

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/004,395B

DATE: 06/23/1999  
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Input Set: I004395B.RAW

95 Phe Gln Asn Phe Val Glu Lys Ile Glu Ser Glu Lys Pro Glu Glu Ser  
 96 300 305 310 315  
 97 tct ccg aaa aat tag gtttaaatta atatgtaaag ctacctaaaa ggtttgcttt 1538  
 W--> 98 Ser Pro Lys Asn  
 W--> 99 320  
 100 acatattaaa ataattaggaa atagtatatg gaaatattag atttggaataa tgaagagctt 1598  
 101 ttaggagttt tttttgaaga agctcaaaat cttgtagata tccttgaaga gaatatt 1655  
 102 <210> SEQ ID NO 2  
 103 <211> LENGTH: 341  
 104 <212> TYPE: PRT  
 105 <213> ORGANISM: B.burgdorferi  
 106 <400> SEQUENCE: 2  
 107 Met Lys Arg Lys Ala Lys Ser Ile Leu Phe Phe Leu Leu Ser Thr Val  
 108 -22 -20 -15 -10  
 109 Leu Phe Ala Gln Glu Thr Asp Gly Leu Ala Glu Gly Ser Lys Arg Ala  
 110 -5 1 5 10  
 111 Glu Pro Gly Glu Leu Val Leu Asp Phe Ala Glu Leu Ala Arg Asp Pro  
 112 15 20 25  
 113 Ser Ser Thr Arg Leu Asp Leu Thr Asn Tyr Val Asp Tyr Val Tyr Ser  
 114 30 35 40  
 115 Gly Ala Ser Gly Ile Val Lys Pro Glu Asp Met Val Val Asp Leu Gly  
 116 45 50 55  
 117 Ile Asn Asn Trp Ser Val Leu Leu Thr Pro Ser Ala Arg Leu Gln Ala  
 118 60 65 70  
 119 Tyr Val Lys Asn Ser Val Val Ala Pro Ala Val Val Lys Ser Glu Ser  
 120 75 80 85 90  
 121 Lys Arg Tyr Ala Gly Asp Thr Ile Leu Gly Val Arg Val Leu Phe Pro  
 122 95 100 105  
 123 Ser Tyr Ser Gln Ser Ser Ala Met Ile Met Pro Pro Phe Lys Ile Pro  
 124 110 115 120  
 125 Phe Tyr Ser Gly Glu Ser Gly Asn Gln Phe Leu Gly Lys Gly Leu Ile  
 126 125 130 135  
 127 Asp Asn Ile Lys Thr Met Lys Glu Ile Lys Val Ser Val Tyr Ser Leu  
 128 140 145 150  
 129 Gly Tyr Glu Ile Asp Leu Glu Val Leu Phe Glu Asp Met Asn Gly Met  
 130 155 160 165 170  
 131 Glu Tyr Ala Tyr Ser Met Gly Thr Leu Lys Phe Lys Gly Trp Ala Asp  
 132 175 180 185  
 133 Leu Ile Trp Ser Asn Pro Asn Tyr Ile Pro Asn Ile Ser Ser Arg Ile  
 134 190 195 200  
 135 Ile Lys Asp Asp Val Pro Asn Tyr Pro Leu Ala Ser Ser Lys Met Arg  
 136 205 210 215  
 137 Phe Lys Ala Phe Arg Val Ser Lys Ser His Ser Ser Lys Val Lys Asn  
 138 220 225 230  
 140 Glu Thr Ser Gly Thr Glu Ser Leu Arg Lys Leu Lys Ala His Glu Thr  
 144 270 275 280

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/004,395B

DATE: 06/23/1999  
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Input Set: I004395B.RAW

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145      Phe Lys Arg Val Leu Lys Leu Arg Glu Lys Ile Ser Ile Ala Glu Gly
146              285                      290                      295
147      Ser Phe Gln Asn Phe Val Glu Lys Ile Glu Ser Glu Lys Pro Glu Glu
148              300                      305                      310
149      Ser Ser Pro Lys Asn
150              315
151      <210> SEQ ID NO 3
152      <211> LENGTH: 21
153      <212> TYPE: DNA
154      <213> ORGANISM: B.burgdorferi
155      <400> SEQUENCE: 3
156      atgaaaagga aagctaaaag t                                     21
157      <210> SEQ ID NO 4
158      <211> LENGTH: 19
159      <212> TYPE: DNA
160      <213> ORGANISM: B.burgdorferi
161      <400> SEQUENCE: 4
162      gatggattag cagaggggt                                     19
163      <210> SEQ ID NO 5
164      <211> LENGTH: 21
165      <212> TYPE: DNA
166      <213> ORGANISM: B.burgdorferi
167      <400> SEQUENCE: 5
168      tgggataaat aattggagcg t                                     21
169      <210> SEQ ID NO 6
170      <211> LENGTH: 21
171      <212> TYPE: DNA
172      <213> ORGANISM: B.burgdorferi
173      <400> SEQUENCE: 6
174      ctaatttttc ggagatgatt c                                     21

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VERIFICATION SUMMARY  
PATENT APPLICATION US/09/004,395B

DATE: 06/23/1999  
TIME: 11:48:55

Input Set: I004395B.RAW

Line ? Error/Warning

Original Text

98 W Line data has been corrected

Ser Pro Lys Asn \*

99 W Invalid/Missing Amino Acid Numbering

320

PAGE: 6

CORRECTION SUMMARY  
PATENT APPLICATION US/09/004,395B

DATE: 06/23/1999  
TIME: 11:48:55

Input Set: I004395B.RAW

Line Original Text

Corrected Data

-----  
98 Ser Pro Lys Asn \*

-----  
Ser Pro Lys Asn

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/004,395BDATE: 06/23/1999  
TIME: 11:48:55

Input Set: I004395B.RAW

## PREVIOUSLY ERRORED SEQUENCES-EDITED

---

1	<210> 6
2	<211> 21
3	<212> DNA
4	<213> B.burgdorferi
5	<400> 6
6	ctaatttttc ggagatgatt c

21



PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/004,395B

DATE: 06/19/1999

TIME: 16:32:24

Input Set: I004395B.RAW

This Raw Listing contains the General  
Information Section and those Sequences  
containing ERRORS.

Does Not Comp.  
Correct Diskette Needed

1 <110> Gilmore Jr., Robert D  
2 Johnson, Barbara JB  
3 <120> RECOMBINANT P37/FlaA AS A DIAGNOSTIC REAGENT  
4 <130> 97,429  
5 <140> US/09/004,395B  
6 <141> 1998-01-08  
7 <160> 6  
8 <170> Microsoft Word 97

## ERRORED SEQUENCES FOLLOW

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9 <210> 6  
10 <211> 21  
11 <212> DNA  
12 <213> B.burgdorferi  
13 <400> 6  
14 ctaatttttc ggagatgatt c  
E--> 15 ①

21

PAGE: 2

VERIFICATION SUMMARY  
PATENT APPLICATION US/09/004,395B

DATE: 06/19/1999  
TIME: 16:32:24

Input Set: I004395B.RAW

Line ? Error/Warning

Original Text

-----  
15 E Number of Bases conflict w/ Running Total 1